IRRIGATION REHABILITATION PROGRAM

2008/2009

STATUS REPORT

Prepared by

Government of Alberta
Agriculture and Rural Development

Irrigation Secretariat

Lethbridge, Alberta
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ACKNOWLEDGEMENT

Don Gross of Alberta Agriculture and Rural Development's Water Resources Branch provided much of the information contained in this report as part of Mr. Gross' monitoring of the construction activities of the irrigation districts. We greatly appreciate and acknowledge the significant assistance provided by Mr. Gross in the completion of this report.

LIST of ACRONYMS

IRP – IRRIGATION REHABILITATION PROGRAM
ICW – IRRIGATION CAPITAL WORKS
MW – MAJOR WORKS
PS – PLANNING STUDIES
PVC – POLYVINYLCHLORIDE
08/09 – CONSTRUCTION PERIOD August 1,2008 to July 31,2009

ABSTRACT

This annual Irrigation Rehabilitation Program Status Report summarizes the expenditures and status of all IRP projects that were active during the construction period August 1, 2008 to July 31, 2009.

The IRP began in 1969 and is a cost shared program between Alberta Agriculture and Rural Development and Alberta's 13 irrigation districts. Since 1969 funding levels have varied between $600,000 and $33,400,000 per year. The 2008 funding allocations are shown in Table 1.

The provincial/irrigation district cost share ratio has varied since 1969, starting at 86% province - 14 % irrigation district, changing to 80% - 20% in 1994/95 and to 75% - 25% in 1995/96 and remains at that ratio today.

Irrigation Rehabilitation Financing Agreements are prepared annually between the Minister and each irrigation district. Projects must be approved by Irrigation Council prior to any project costs being paid for with cost shared funds, and all eligible project expenditures must be documented by Progress Certificates.

Circumstances may arise that require an irrigation district to change project priorities from time to time. As well, actual costs may differ from estimated costs because of various circumstances, i.e. poor working conditions due to weather, construction cost inflation, etc.

Information contained in this report was gathered from random monitoring (field visits) of project construction sites, records from the Water Resources Branch and the Irrigation Secretariat and information from irrigation district personnel.

The vast majority of IRP funding is provided to the districts according to an inter-district allocation formula. In addition, in 2008, some Special Funding was allocated for projects that particularly address critical needs and the desired outcomes of *Water for Life: Alberta's Strategy for Sustainability*. Those projects are identified in this report by an * before the IRP number.

TABLES

The following tables summarize the results of each district's activities for 2008/2009.

Table 1: **Irrigation Rehabilitation Program – Funding**

- Lists the IRP funding received by each district together with the district's share.

Table 2: **Irrigation Rehabilitation Program – Project Construction**

- Lists the IRP projects having substantial construction in each district with statistical data for each project.

Table 3: **Irrigation Rehabilitation Program – Summary of Funding and Expenditures**

- Lists each district's Major Works, Irrigation Capital Works and Planning Study expenditures, total funding allocation, and total expenditures. The expenditures are calculated from each district's progress certificates submitted for the construction period.

Table 4: **Irrigation Rehabilitation Program – Summary of Lengths and Type of Rehabilitation**

- Historical summary of total length and type of rehabilitation completed from 1969 to July 31, 2009.

Table 5: **Irrigation Rehabilitation Program – Summary of Rehabilitated Lengths**

- Lists the length of existing distribution systems rehabilitated in each district to July 31, 2008, the length of rehabilitation within the 2008/2009 construction period, and the total length to July 31, 2009.

AETNA IRRIGATION DISTRICT (AID)

During this reporting period the AID expended $1,315,000 of IRP cost shared funds on three projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Two projects with significant expenditures in 2008/2009 are listed below.

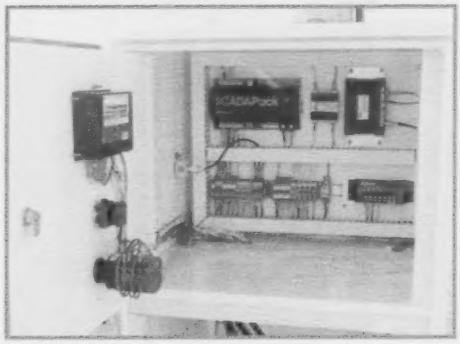
Project #2105, C10 (Aetna) Pipeline.

AID IRP Project Construction Summary
August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
2105	ICW	C10 (Aetna) Pipeline	2008 06	2009 01	100%	100%	715	5678	
2141	ICW	Pipeline Upgrade	2008 06	2009 04	100%	100%		140	
							715	5818	

BOW RIVER IRRIGATION DISTRICT (BRID)

During this reporting period the BRID expended $6,913,408 of IRP cost shared funds on twenty two projects. MW expenditures total $1,594,749 and ICW and PS expenditures total $5,318,659. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2008/2009 are listed below.



Project #2122, Flow Measurement/Automation 2008.

BRID IRP Project Construction Summary

August 1, 2008 to July 31, 2009

IRP #	ICW /MW /PS	Project Name	Date				Rehabilitation Completed		
			Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
2102	MW	Lomond Lateral	2008 02	2008 10	100%	100%	2133	696	2167
2110	ICW	Lateral C3 (West Block)	2008 02	2008 11	100%	100%		640	
2111	ICW	Laterals D-1, D-1-4 (West Block)	2008 02	2008 09	100%	100%		13603	
2118	ICW	Lateral H-6-2 (West Block)	2008 02	2008 10	100%	100%		8810	
*2122	MW	Flow Measurement/ Automation 2008	2008 02	2008 05	65%	100%	4 sites installed		
2136	ICW	Drain 110A (Hays Block)	2008 02	2008 09	100%	100%	500m spillway rehab		
2149	ICW	Lateral M2 (West Block)	2008 09	2009 04	100%	100%		338	
							2133	24087	2167

NOTE: * indicates Special Funding used towards this project

EASTERN IRRIGATION DISTRICT (EID)

During this reporting period the EID expended $5,148,554 of IRP cost shared funds on ten projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2008/2009 are listed below.

Project #2135
Kitsim Bypass Canal.

EID IRP Project Construction Summary
August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
*2129	ICW	EID Flow Measurement, Automation (2008)	2008 06	2009 03	50%	100%	5 sites installed		
2134	ICW	Kitsim Feeder Canal	2008 02	2008 11	100%	100%			8750
2135	ICW	Kitsim Bypass Canal	2008 02	2008 08	100%	100%			2555
*2145	ICW	Open Channel Flow Measurement	2008 06	2009 04	100%	100%	8 sites installed		
									11305

NOTE: * indicates Special Funding used towards this project

LEAVITT IRRIGATION DISTRICT (LID)

During this reporting period, the LID expended $4,535 of IRP cost shared funds on one project in the ICW category. This project was for cleanup of the previous years work. There was no significant construction in 2008/2009.

LETHBRIDGE NORTHERN IRRIGATION DISTRICT (LNID)

During this reporting period the LNID expended $5,235,903 of cost shared funds on six projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. One project with significant construction in 2008/2009 is listed below.

Project #2059, Laterals F6/F7 Pipeline. Installing 750 mm dia pvc pipe.

Project #2059, Laterals F6/F7 Pipeline. Pipeline screening chamber.

LNID IRP Project Construction Summary
August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
2059	ICW	Laterals F6/F7	2007 02	2008 08	55%	55%		19290	

MAGRATH IRRIGATION DISTRICT (MID)

During this reporting period the MID expended $508,238 of IRP cost shared funds on two projects in the ICW category. Both these projects had significant construction in 2008/2009 and are listed below.

Project #2128, Inflow Metering Stations. Cast-in-place measurement weirs.

MID IRP Project Construction Summary
August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
1983	ICW	Highline Pipeline	2004 02	2006 09	15%	80%		2099	
*2128	ICW	MID Inflow Meterng Stations	2008 06	2008 11	100%	100%	2 sites installed		

NOTE: * indicates Special Fundingused towards this project

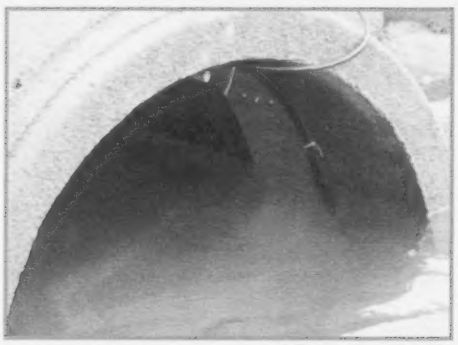
MOUNTAIN VIEW IRRIGATION DISTRICT (MVID)

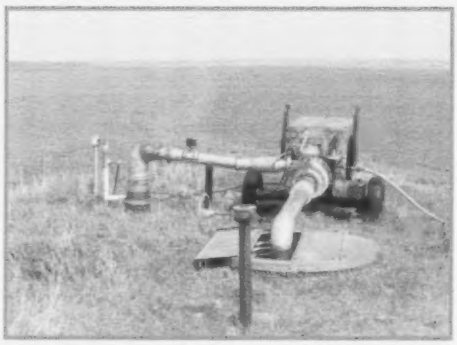
During this reporting period the MVID expended $3,944 of IRP funds on one project in the ICW category. Expenditures were for calibration and data collection of the flow measurement device installed under Special Funding the previous year. There was no significant construction in 2008/2009.

Project #2103, Highway 800 Water Measurement.
Water measurement station installed with 2007 Special Funding.

RAYMOND IRRIGATION DISTRICT (RID)

During this reporting period the RID expended $694,987 of IRP cost shared funds on five projects in the ICW category. Those projects with significant construction in 2008/2009 are listed below.





Project #2146, Inflow Measurement. Flow measurement devices installed on major canals and farm turnouts.

RID IRP Project Construction Summary

August 1, 2008 to July 31, 2009

IRP #	ICW /MW /PS	Project Name	Date				Rehabilitation Completed		
			Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
2066	ICW	Stirling #8	2007 02	2007 11	30%	100%		2860	
2126	ICW	Sauder Reservoir Spillway Gate	2008 02	2008 08	100%	100%	cast-in-place control structure		
*2146	ICW	RID Inflow Measurement	2008 06	2009 05	40%	40%	15 sites installed		
2156	ICW	Welling 5-1 Pipeline	2009 02	2009 03	100%	100%		1220	
								4080	

NOTE: * indicates Special Funding used towards this project

ROSS CREEK IRRIGATION DISTRICT (RCID)

No funds were expended by the RCID during this reporting period.

St. Mary River Irrigation District (SMRID)

During this reporting period the SMRID expended $9,489,524 of IRP cost shared funds on eighteen projects. MW expenditures total $435,808 and ICW expenditures total $9,053,716. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2008/2009 are listed below.

Project #2127, Open Channel Flow Measurement Project. Flow measurement devices installed at nine sites throughout the district.

Project #2116, Sauder Reservoir Spillway Gate. Cast-in-place structure with overshot gate.

SMRID IRP Project Construction Summary

August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
1799	ICW	Bow Island Lateral 26	1998 06	2008 10	5%	5%		1605	
1862	MW	North Lateral Armouring	2001 12	2002 10	8%	70%			1370
1878	ICW	Bow Island Lateral 10B	2001 08	2001 11	17%	100%		6261	
2051	ICW	West Medicine Hat Lateral 6	2006 05	2007 11	32%	39%		7617	
2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	24%	41%		4934	
2109	ICW	Main Canal Lateral 4	2007 09	2007 11	20%	55%		2284	
2116	MW	Sauder Reservoir Spillway Gate	2008 02	2008 08	100%	100%	cast-in-place control structure		
*2112	ICW	SMRID Flow Measurement Project	2007 11	2008 04	100%	100%	9 sites installed		
*2127	ICW	SMRID Open Channel Flow Measurement	2008 02	2009 04	65%	65%	6 sites installed		
								22701	1370

NOTE: * indicates Special Funding used towards this project

TABER IRRIGATION DISTRICT (TID)

During this reporting period the TID expended $1,858,049 of IRP cost shared funds on nine projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2008/2009 are listed below.

Project #2114, Lateral 6 Barnwell. Precast check and turnout to Lateral 6 settling pond.

Project #2114, Lateral 6 Barnwell. Lateral 6A settling pond with gabion basket aquatic weed filter.

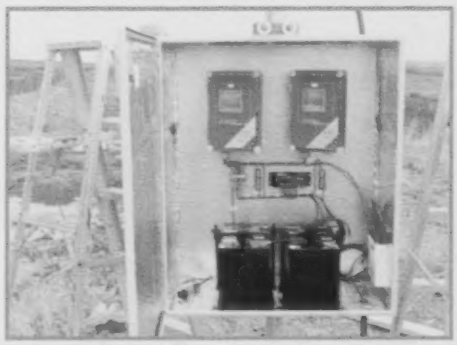
TID IRP Project Construction Summary
August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
1565	ICW	Lateral 3B Taber	2006 06	2008 08	100%	100%		128	
2114	ICW	Lateral 6 Barnwell	2008 02	2008 10	35%	55%		2410	
*2119	ICW	TID Flow Measurement (2008)	2008 02	2008 04	67%	100%	2 sites installed		
2125	ICW	Sauder Reservoir Spillway Gate	2008 02	2008 08	100%	100%	cast-in-place control structure		
								2538	

NOTE: * indicates Special Funding used towards this project

UNITED IRRIGATION DISTRICT (UID)

During this reporting period the UID expended $940,687 of IRP cost shared funds on seven projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2008/2009 are listed below.



Project #2130, Inflow Metering Stations. Flow measurement installed on major laterals.

UID IRP Project Construction Summary

August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
2093	ICW	Lateral D8	2007 02	2008 09	100%	100%		2872	
2094	ICW	Lateral A5	2007 02	2008 08	100%	100%		1556	
2115	ICW	Lateral B7, B7b	2008 02	2009 02	100%	100%		3183	
*2130	ICW	UID Inflow Metering Stations	2008 02	2009 05	50%	100%	1 site installed		
2158	ICW	Lateral D3, D3a	2009 02	2009 05	5%	5%		375	
								7986	

NOTE: * indicates Special Funding used towards this project

WESTERN IRRIGATION DISTRICT (WID)

During this reporting period the WID expended $4,975,982 of IRP cost shared funds on eight projects. MW expenditures total $22,398 and ICW and PS expenditures total $4,953,584. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2008/2009 are listed below.

Project #2124, Secondary A Canal. Canal before and after rehab.

WID IRP Project Construction Summary
August 1, 2008 to July 31, 2009

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 08/09	% Completed to July 31/09	Liners (metres)	Pipe (metres)	Earth (metres)
2124	ICW	Secondary A Canal	2008 02	2008 09	100%	100%		601	8216
*2131	ICW	WID Flow Measurement, Automation, SCADA	2008 06	2009 05	67%	100%	2 sites installed		
*2132	ICW	WID Return Flow Measurement	2008 06	2008 11	100%	100%	13 sites upgraded		

NOTE: * indicates Special Funding used towards this project

TABLES

2008

TABLE 1

IRRIGATION REHABILITATION PROGRAM FUNDING

The following table lists IRP grants received by each district together with each district's share.

IRRIGATION DISTRICT	SPECIAL FUNDING GRANT	SPECIAL FUNDING DISTRICT SHARE	BASE FUNDING GRANT	BASE FUNDING DISTRICT SHARE	TOTAL GRANT	TOTAL DISTRICT SHARE	TOTAL PROGRAM
AETNA	$400,000	$133,333	$86,668	$29,398	$486,668	$162,731	$649,399
BOW RIVER	$42,000	$0	$4,188,802	$1,397,946	$4,230,802	$1,397,946	$5,628,748
EASTERN	$242,000	$0	$6,180,110	$2,060,037	$6,422,110	$2,060,037	$8,482,147
LEAVITT	$0	$0	$99,803	$33,267	$99,803	$33,267	$133,070
LETH NORTHERN	$107,000	$0	$2,868,071	$956,024	$2,975,071	$956,024	$3,931,095
MAGRATH	$120,000	$0	$286,398	$95,466	$406,398	$95,466	$501,864
MOUNTAIN VIEW	$0	$0	$98,721	$32,907	$98,721	$32,907	$131,628
RAYMOND	$182,000	$0	$688,220	$229,407	$870,220	$229,407	$1,099,627
ROSS CREEK	$0	$0	$32,009	$10,670	$32,009	$10,670	$42,679
ST MARY RIVER	$80,000	$0	$7,143,968	$2,381,322	$7,223,968	$2,381,322	$9,605,290
TABER	$0	$0	$1,365,420	$455,140	$1,365,420	$455,140	$1,820,560
UNITED	$25,000	$0	$727,310	$242,436	$752,310	$242,436	$994,746
WESTERN	$202,000	$0	$2,834,500	$947,204	$3,036,500	$947,204	$3,983,704
TOTALS	**$1,400,000**	**$133,333**	**$26,600,000**	**$8,871,224**	**$28,000,000**	**$9,004,557**	**$37,004,557**

NOTE: Base Funding Grants are cost shared 75% provincial/25% irrigation district

Base Funding Grants are based on the Inter-District Allocation Formula:

- 50% of the funds allocated on the basis of the number of irrigation acres in each district, and
- 50% of the funds allocated on the basis of the infrastructure replacement cost of specified infrastructure in each district

$3.6 million in Base Funding Grants are based on the amount of infrastructure rated in poor to fair condition

$1.0 million in Special Funding Grants for water measurement and automation projects at 100% provincial

$400,000 Special Funding Grant to AID in support of a major water management pipeline cost shared 75%-25%

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2008 to JULY 31, 2009

TABLE 2
1 of 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 08/09	% COMPLETE to July 31/09	LINERS	PIPE	EARTH
								(length in metres)		
AID	2105	ICW	C10 (Aetna) Pipeline	2008 06	2009 01	100%	100%	**715**	**5678**	
AID	2141	ICW	Pipeline Upgrade	2008 06	2009 04	100%	100%		**140**	
BRID	2102	MW	Lomond Lateral	2008 02	2008 10	100%	100%	**2133**	**696**	**2167**
BRID	2110	ICW	Lateral C3 (West Block)	2008 02	2008 11	100%	100%		**640**	
BRID	2111	ICW	Laterals D-1, D-1-4 (West Block)	2008 02	2008 09	100%	100%		**13603**	
BRID	2118	ICW	Lateral H-6-2 (West Block)	2008 02	2008 10	100%	100%		**8810**	
BRID	*2122	MW	Flow Measurement/Automation 2008	2008 02	2008 05	65%	100%	**4 sites installed**		
BRID	2136	ICW	Drain 110A (Hays Block)	2008 02	2008 09	100%	100%	**500m spillway rehab**		
BRID	2149	ICW	Lateral M2 (West Block)	2008 09	2009 04	100%	100%		**338**	
EID	*2129	ICW	EID Flow Measurement, Automation (2008)	2008 06	2009 03	50%	100%	**5 sites installed**		
EID	2134	ICW	Kitsim Feeder Canal	2008 02	2008 11	100%	100%			**8750**
EID	2135	ICW	Kitsim Bypass Canal	2008 02	2008 08	100%	100%			**2555**
EID	*2145	ICW	Open Channel Flow Measurement	2008 06	2009 04	100%	100%	**8 sites installed**		
LNID	2059	ICW	Laterals F6/F7	2007 02	2008 08	55%	55%		**19290**	
MID	1983	ICW	Highline Pipeline	2004 02	2006 09	15%	80%		**2099**	
MID	*2128	ICW	MID Inflow Metering Stations	2008 06	2008 11	100%	100%	**2 sites installed**		
RID	2066	ICW	Stirling #8	2007 02	2007 11	30%	100%		**2860**	
RID	2126	ICW	Sauder Reservoir Spillway Gate	2008 02	2008 08	100%	100%	**cast-in-place structure**		
RID	*2146	ICW	RID Inflow Measurement	2008 06	2009 05	40%	40%	**15 sites installed**		
RID	2156	ICW	Welling 5-1 Pipeline	2009 02	2009 03	100%	100%		**1220**	

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2008 to JULY 31, 2009

TABLE 2
2 of 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 08/09	% COMPLETE to July 31/09	LINERS	PIPE	EARTH
								(length in metres)		
SMRID	1799	ICW	Bow Island Lateral 26	1998 06	2008 10	5%	5%		1605	
SMRID	1862	MW	North Lateral Armouring	2001 12	2002 10	8%	70%			1370
SMRID	1878	ICW	Bow Island Lateral 10B	2001 08	2001 11	17%	100%		6261	
SMRID	2051	ICW	West Medicine Hat Lateral 6	2006 05	2007 11	32%	39%		7617	
SMRID	2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	24%	41%		4934	
SMRID	2109	ICW	Main Canal Lateral 4	2007 09	2007 11	20%	55%		2284	
SMRID	2116	MW	Sauder Reservoir Spillway Gate	2008 02	2008 08	100%	100%	cast-in-place structure		
SMRID	*2112	ICW	SMRID Flow Measurement Project	2007 11	2008 04	100%	100%	9 sites installed		
SMRID	*2127	ICW	SMRID Open Channel Flow Measurement	2008 02	2009 04	65%	65%	6 sites installed		
TID	1565	ICW	Lateral 3B Taber	2006 06	2008 08	100%	100%		128	
TID	2114	ICW	Lateral 6 Barnwell	2008 02	2008 10	35%	55%		2410	
TID	*2119	ICW	TID Flow Measurement (2008)	2008 02	2008 04	67%	100%	2 sites installed		
TID	2125	ICW	Sauder Reservoir Spillway Gate	2008 02	2008 08	100%	100%	cast-in-place structure		
UID	2093	ICW	Lateral D8	2007 02	2008 09	100%	100%		2872	
UID	2094	ICW	Lateral A5	2007 02	2008 08	100%	100%		1556	
UID	2115	ICW	Lateral B7, B7b	2008 02	2009 02	100%	100%		3183	
UID	*2130	ICW	UID Inflow Metering Stations	2008 02	2009 05	50%	100%	1 site installed		
UID	2158	ICW	Lateral D3, D3a	2009 02	2009 05	5%	5%		375	
WID	2124	ICW	Secondary A Canal	2008 02	2008 09	100%	100%		601	8216
WID	*2131	ICW	WID Flow Measurement, Automation, SCADA	2008 06	2009 05	67%	100%	2 sites installed		
WID	*2132	ICW	WID Return Flow Measurement	2008 06	2008 11	100%	100%	13 sites upgraded		
								2848	89200	23058
								TOTAL	115,106	

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF FUNDING AND EXPENDITURES
AUGUST 1, 2008 to JULY 31, 2009

TABLE 3

DISTRICT	2008 TOTAL FUNDING GOV'T & DIST SHARE	08/09 MW EXPENDITURES	08/09 ICW + PS EXPENDITURES	08/09 TOTAL EXPENDITURES
AID	$649,399	$0	$1,315,000	$1,315,000
BRID	$5,628,748	$1,594,749	$5,318,659	$6,913,408
EID	$8,482,147	$0	$5,148,554	$5,148,554
LID	$133,070	$0	$4,535	$4,535
LNID	$3,931,095	$0	$5,235,903	$5,235,903
MID	$501,864	$0	$508,238	$508,238
MVID	$131,628	$0	$3,944	$3,944
RID	$1,099,627	$0	$694,987	$694,987
RCID	$42,679	$0	$0	$0
SMRID	$9,605,290	$435,808	$9,053,716	$9,489,524
TID	$1,820,560	$0	$1,858,049	$1,858,049
UID	$994,746	$0	$940,687	$940,687
WID	$3,983,704	$22,398	$4,953,584	$4,975,982
TOTALS	**$37,004,557**	**$2,052,955**	**$35,035,856**	**$37,088,811**

NOTE: (1) The total expenditures do not equal the total program funding as construction may occur in a different year (or years) than the year the funds were allocated.

(2) Special Funding is included (if any).

(3) Some districts accrue funds to construct a larger project in the future.

(4) Expenditures are categorized as either:
MW (Major Works) - includes storage reservoirs and dams or conveyance works and seepage control where the design capacity is 6 m^3/s or greater,
ICW (Irrigation Capital Works) - all other irrigation district infrastructure, or
PS (Planning Studies) - studies and digital or photographic imagery used in an irrigation district's overall rehabilitation planning.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF LENGTH and TYPE OF REHABILITATION
1969 to JULY 31, 2009

TABLE 4

	CONCRETE LINING (km)	MEMBRANE LINERS (km)	PIPELINES (km)	EARTH CANALS (km)	TOTALS (km)	OPEN DRAINS (km)
69/80	219.14	36.07	83.41	211.30	549.92	205.85
80/81	20.04	19.50	24.18	73.19	136.91	41.16
81/82	13.12	18.50	30.27	45.78	107.67	72.89
82/83	15.52	29.13	97.63	103.98	246.26	36.02
83/84	7.01	56.63	56.48	106.52	226.64	16.33
84/85	7.05	48.92	53.09	87.02	196.08	26.68
85/86	7.71	28.08	94.39	94.93	225.11	7.05
86/87	4.58	32.44	85.61	75.00	197.63	15.58
87/88	2.79	37.80	49.75	55.45	145.79	12.83
88/89	0.04	43.16	60.68	47.27	151.15	47.08
89/90	0.00	18.96	54.27	49.03	122.26	3.12
90/91	0.00	34.09	64.54	51.49	150.12	4.21
91/92	0.00	15.86	95.59	43.30	154.75	3.18
92/93	0.00	11.20	76.44	28.33	115.97	7.64
93/94	0.00	26.32	78.22	75.29	179.83	8.58
94/95	0.00	23.31	69.97	15.31	108.59	8.44
95/96	0.00	18.63	92.62	23.28	134.53	8.58
96/97	0.00	11.85	138.74	26.24	176.83	0.00
97/98	0.00	23.71	88.52	16.87	129.10	0.29
98/99	0.00	21.68	86.53	16.57	124.78	0.00
99/00	0.00	11.00	116.57	24.76	152.33	4.59
00/01	0.00	11.65	91.22	9.15	112.02	0.15
01/02	0.00	1.37	96.40	14.55	112.32	0.00
02/03	0.00	4.20	129.31	18.56	152.07	1.70
03/04	0.00	6.37	157.23	8.72	172.32	2.45
04/05	0.00	15.74	97.62	12.94	126.30	1.42
05/06	0.00	1.24	117.86	16.02	135.12	1.42
06/07	0.00	0.70	123.11	13.25	137.06	0.00
07/08	0.00	2.91	73.89	7.17	83.97	0.00
08/09	0.00	2.85	89.20	23.06	115.11	0.50
TOTALS	**297.00**	**613.87**	**2573.34**	**1394.33**	**4878.54**	**537.74**
% of Total	**6.1%**	**12.6%**	**52.7%**	**28.6%**		

NOTES: (1) Open drains designate earth drains used to channel irrigation spill water: lengths do not include deep interceptors, toe drains, tile drains or tile grid systems.
(2) Drains are not included in TOTALS.
(3) Total length differs from Table 5 due to recurrent rehabilitation.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF REHABILITATED LENGTHS
to JULY 31, 2009

TABLE 5

DISTRICT	TOTAL DISRTICT SYSTEMS (km)	TOTAL SYSTEMS REHABILITATED to JULY 31, 2008 (km)	2008/2009 REHABILITATION (km)	TOTAL to JULY 31, 2009 (km)	% of TOTAL DISTRICT SYSTEM REHABILITATION
AID	39.94	15.81	6.53	22.34	**56%**
BRID	1019.45	707.38	28.39	735.77	**72%**
EID	1922.76	772.11	11.30	783.41	**41%**
LID	53.44	40.45	0.00	40.45	**76%**
LNID	745.07	489.36	19.29	508.65	**68%**
MID	100.01	85.77	2.10	87.87	**88%**
MVID	39.66	33.73	0.00	33.73	**85%**
RID	235.93	203.96	4.08	208.04	**88%**
RCID	26.33	21.69	0.00	21.69	**82%**
SMRID	1816.99	1115.66	24.07	1139.73	**63%**
TID	335.26	300.25	2.54	302.79	**90%**
UID	236.34	134.96	7.99	142.95	**60%**
WID	1065.00	301.39	8.82	310.21	**29%**
TOTALS	**7636.19**	**4222.52**	**115.11**	**4337.63**	**57%**

NOTES:

(1) Lengths in AID, BRID, EID, LNID, SMRID, UID, & WID exclude Main Canals that were rehabilitated under Alberta Environment's Water Management Systems Improvement Program.

(2) Total Systems Rehabilitated for EID does not include Bank Rebuilding Projects constructed from 1977 to 1982.

(3) Total Systems Rehabilitated for WID does not include "TREE REMOVAL" Projects.

(4) Totals do not include drainage works.

(5) Totals do not include works rehabilitated by a district using its own funds.

(6) Total length differs from Table 4 due to recurrent rehabilitation.